

# Tuberculosis Epidemiologic Studies Consortium (TBESC) Update

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**Prevention and Health Promotion Administration**

**Center for TB Control and Prevention**

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**MARYLAND**  
Department of Health

# *Prevention and Health Promotion Administration*

## **MISSION AND VISION**

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### **MISSION**

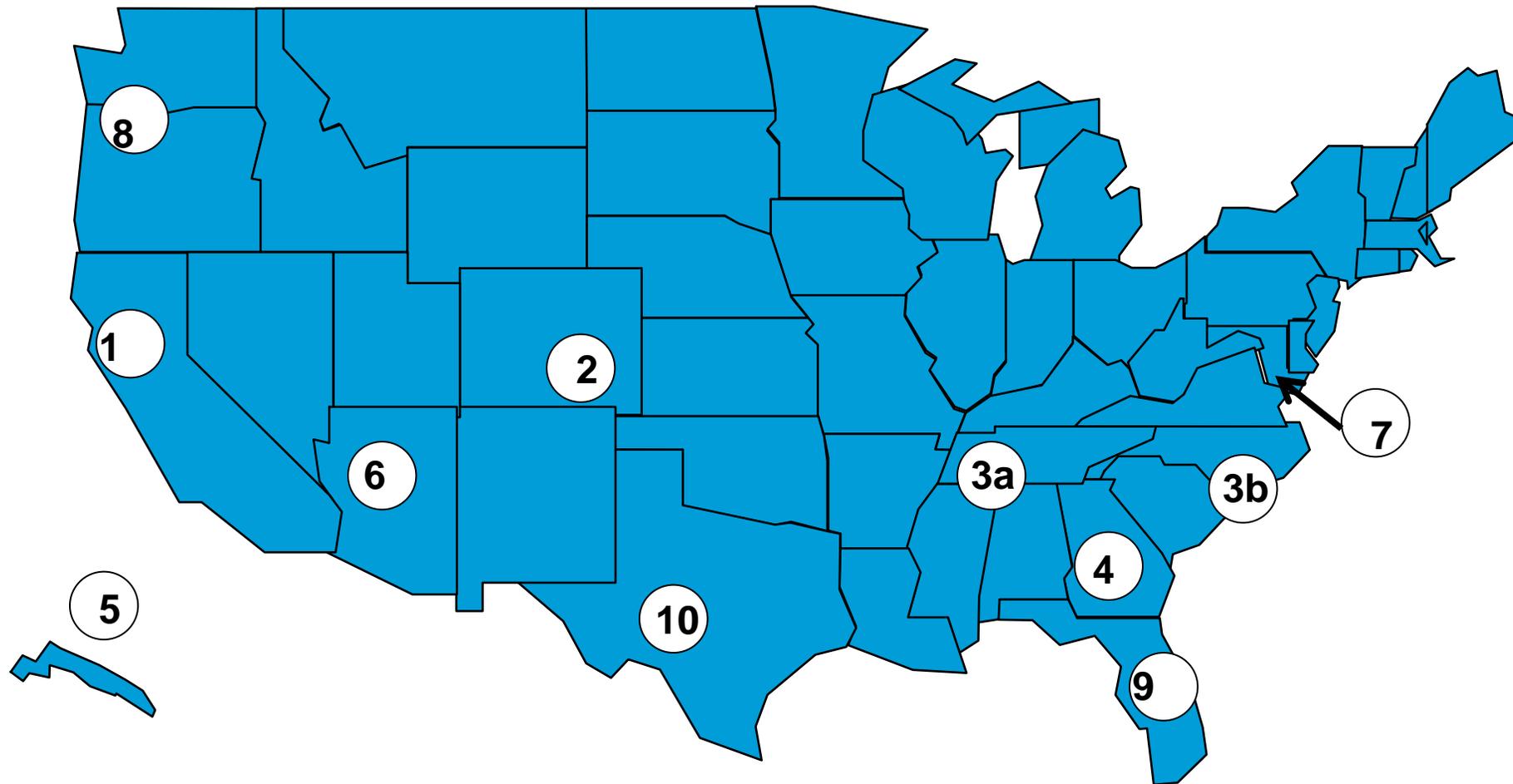
The mission of the Prevention and Health Promotion Administration is to protect, promote and improve the health and well-being of all Marylanders and their families through provision of public health leadership and through community-based public health efforts in partnership with local health departments, providers, community based organizations, and public and private sector agencies, giving special attention to at-risk and vulnerable populations.

### **VISION**

The Prevention and Health Promotion Administration envisions a future in which all Marylanders and their families enjoy optimal health and well-being.

# 10 TBESC Sites

Multiple recruitment clinics in 11 states



# Maryland TBESC Staff

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Study Nurse Coordinators	Research Assistant	Other Study Staff	Co-Principal Investigators
Gina Maltas Bee Munk	Paola Rivera-Mudafort	Sam Holzman Alexandra Pyan	Maunank Shah Paul Saleeb (joins May 1) Wendy Cronin (leaves May 31)

# Summary of TBESC Activities

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- **Part A** – head to head comparison between TST, QFT-GIT, and T-SPOT (Baltimore City and Baltimore County)
- **Part B** – LTBI Cascade (Baltimore City and Baltimore, Prince Georges, and Montgomery Counties)
  - **January-June 2017:** LTBI activities in two LHDs
  - **Fall 2017 - ongoing:** LTBI activities with community providers serving high risk populations
- **Part C** –LTBI implementation research in 2 community clinics (protocol under development)
- **Part D** – Fall 2018: TBTC Study 37, a clinical trial for 6 week regimen of Rifapentine, daily, self-administered (under IRB review)

# Part B. USPSTF Recommendation (2016)

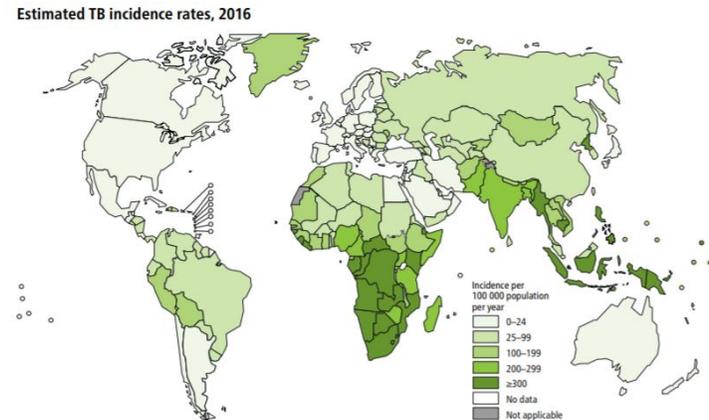
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- US Preventative Services Task Force recommends screening for LTBI in populations at increased risk for LTBI and for progression from LTBI to active TB disease

## Contacts



## Foreign-born

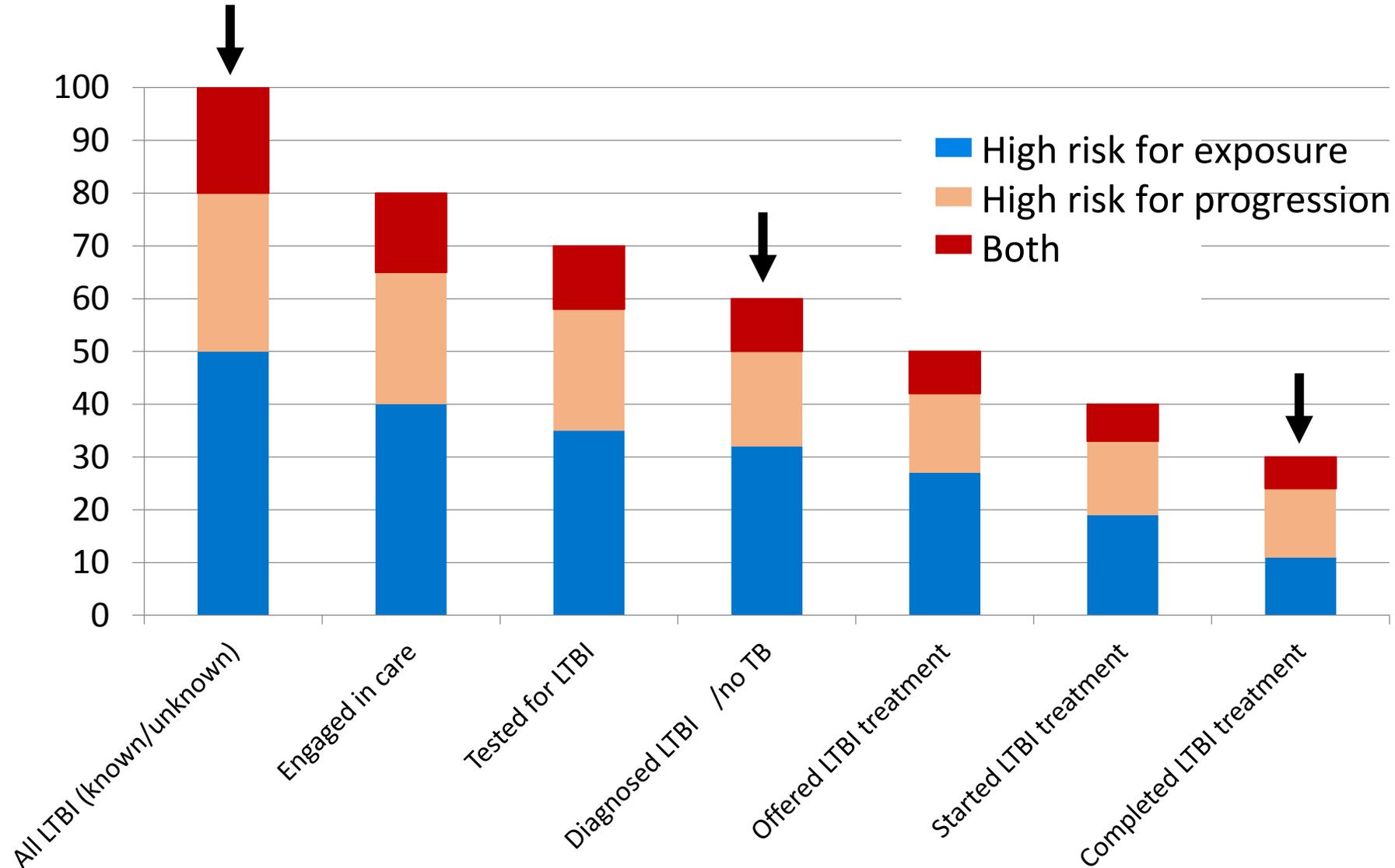


## Medical risks



# Part B. TB Prevention Cascade to Cure

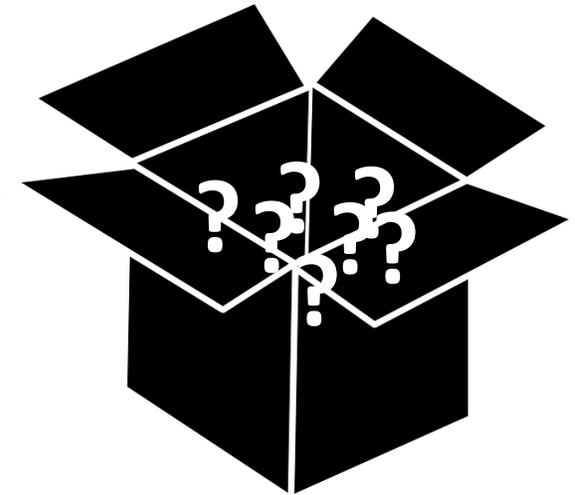
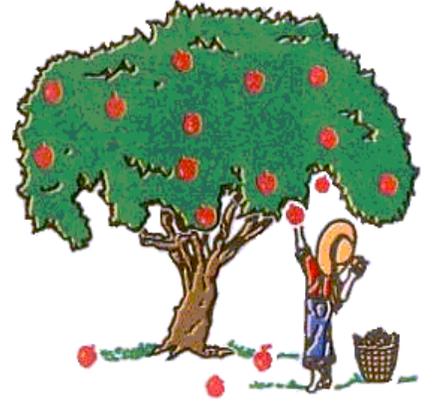
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# Part B: Latent Tuberculosis Infection Cascade to Cure

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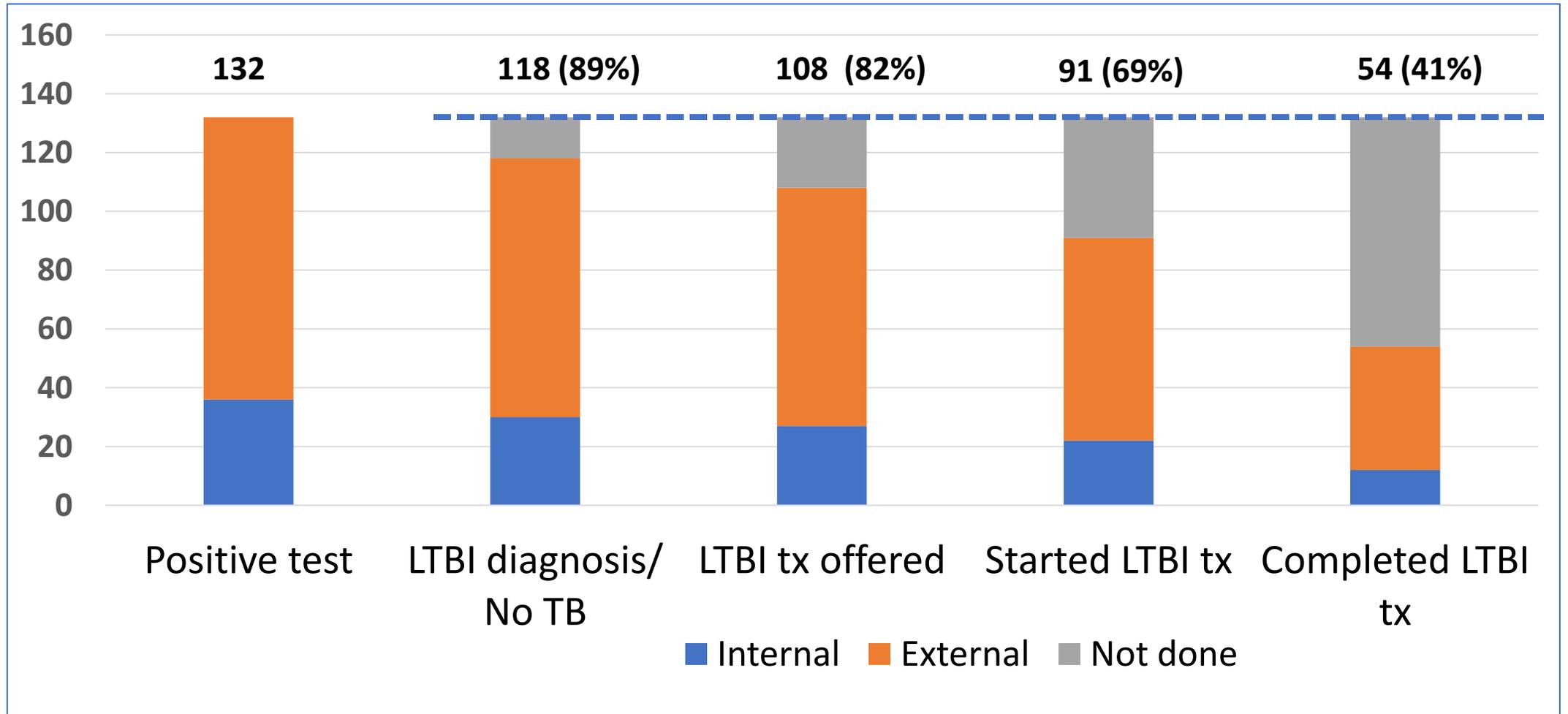
- Local health departments: Baltimore City and Baltimore County
- Community Clinics serving High Risk Populations
  - St. Clare Medical Outreach, UM St. Joseph Medical Center) (community clinic)
  - Chase Brexton Health Care (FQHC)
  - CCI Health and Wellness Services (FQHC)
  - University of Maryland Baltimore County (UMBC) – University Health Center (student clinic)
  - Towson University (student clinic)



# Part B (LHDs): LTBI Cascade to Cure – preliminary data

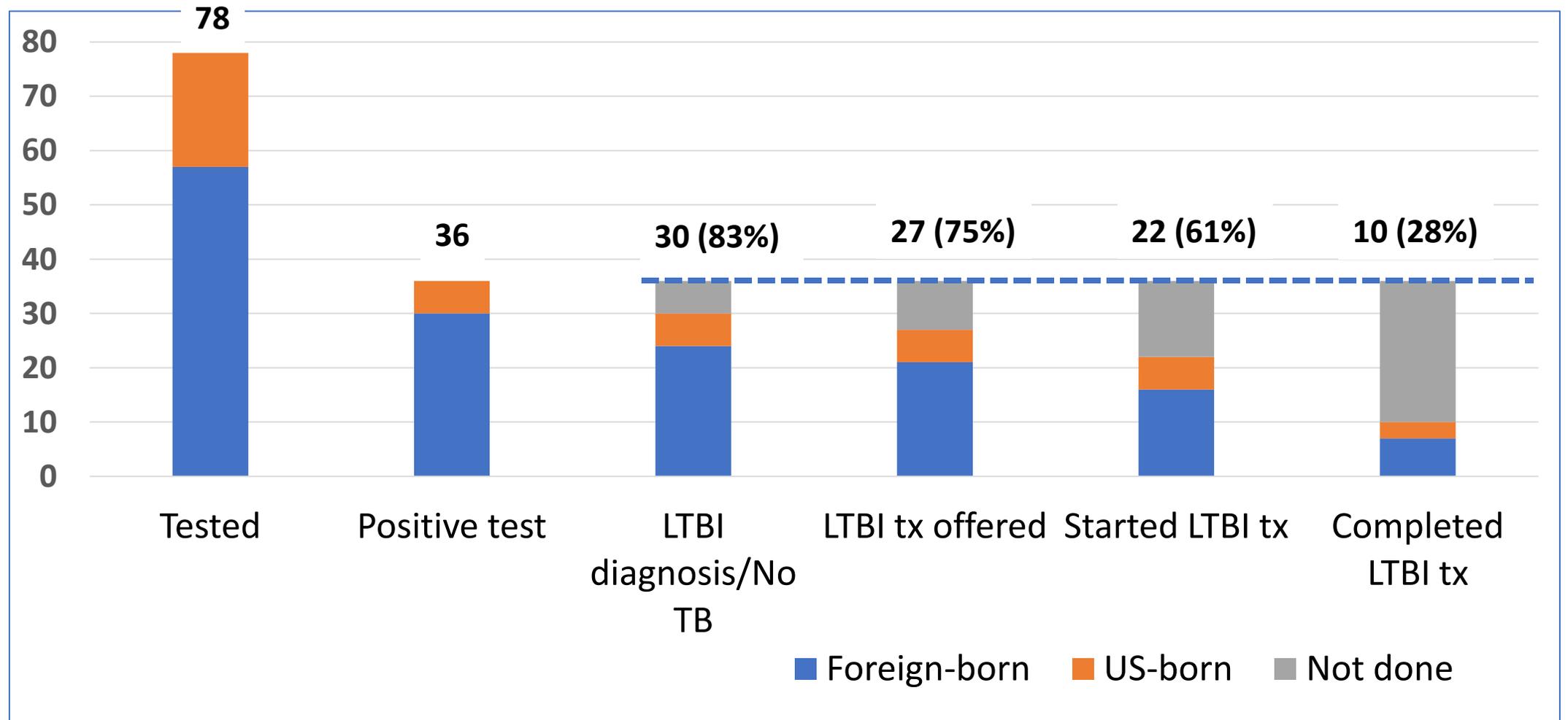
## All LTBI+ patients by testing source, January-June 2017

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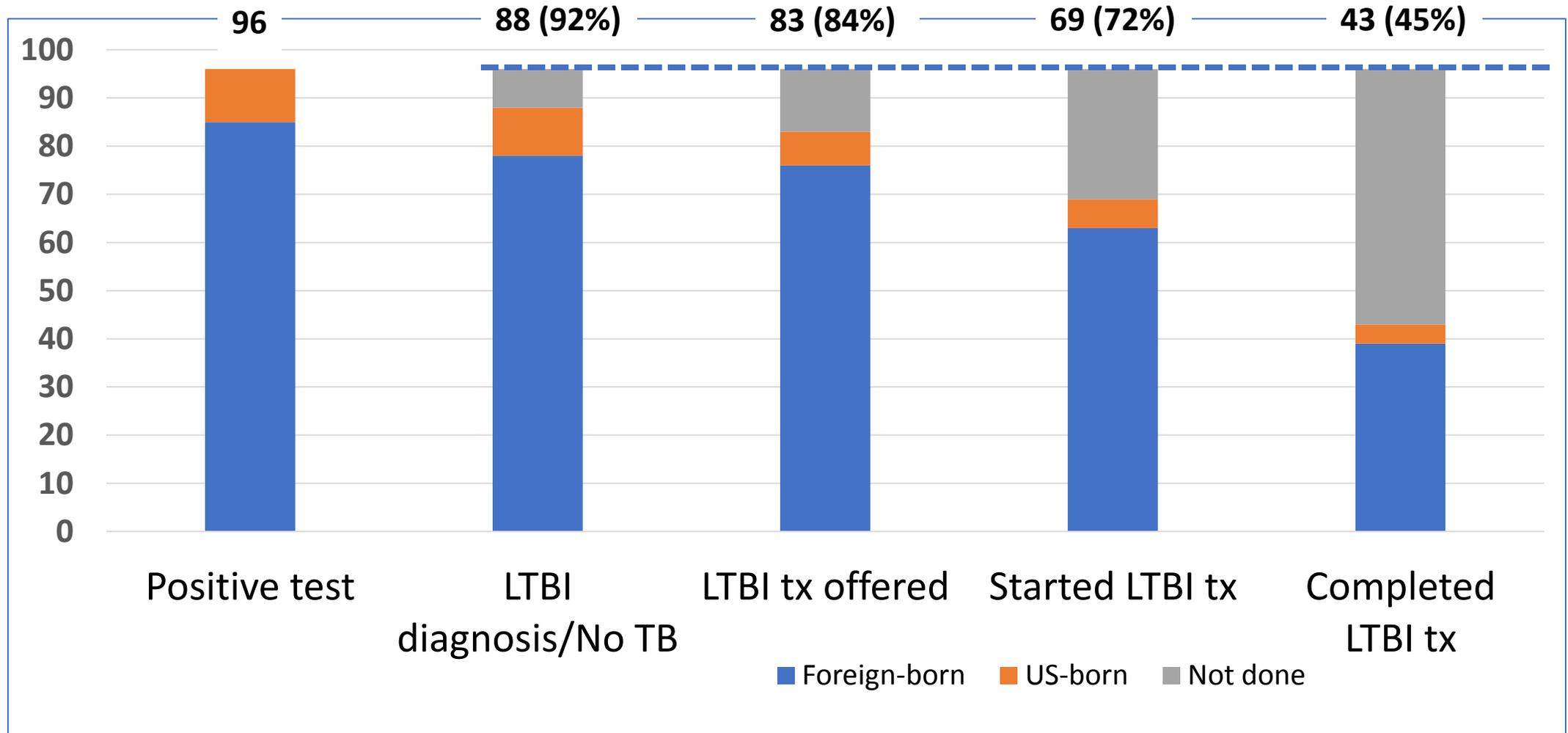


# Part B (LHD): LTBI Cascade to Cure – preliminary data

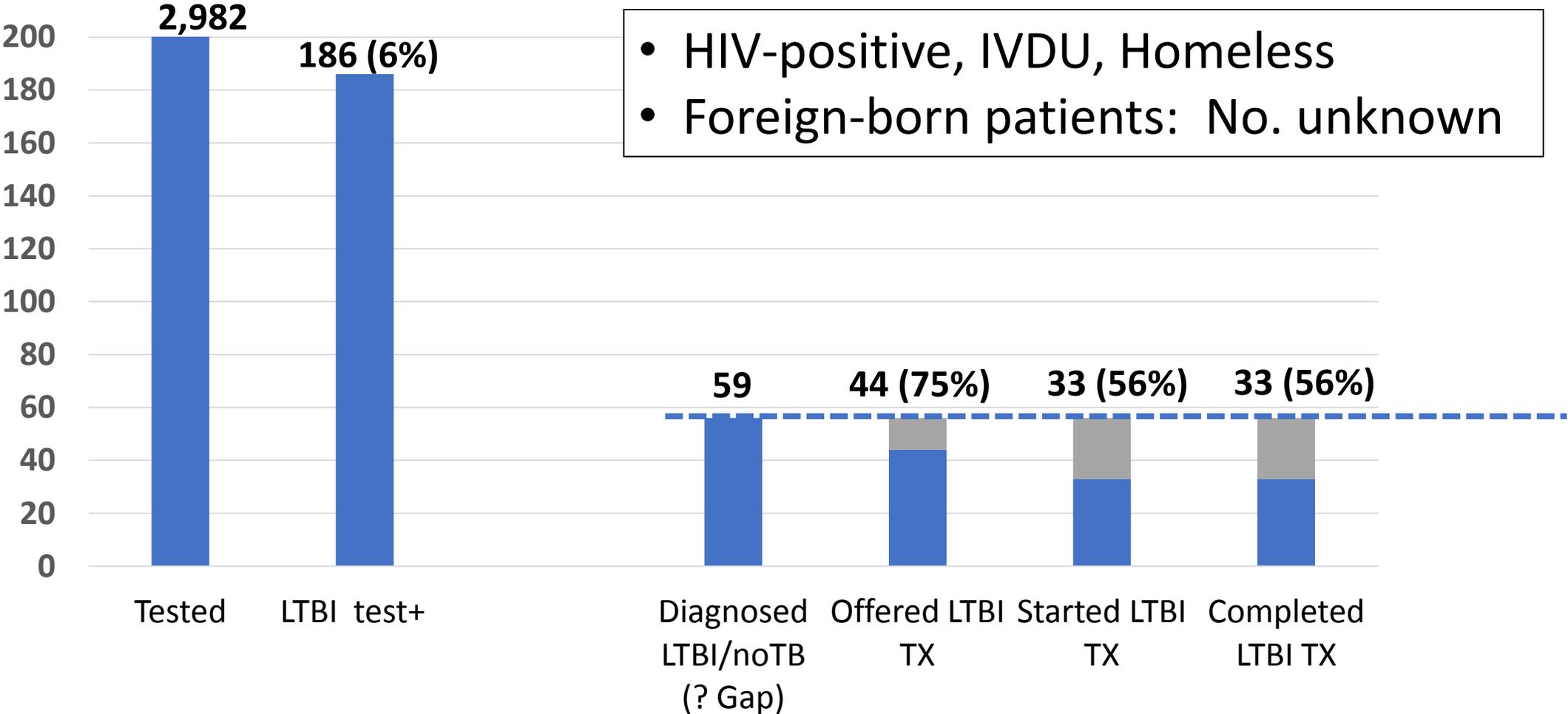
## All LTBI patients internally tested, by country of birth, January-June 2017



# Part B (LHD): LTBI Cascade to Cure –preliminary data, all LTBI patients externally tested, by country of birth, January-June 2017

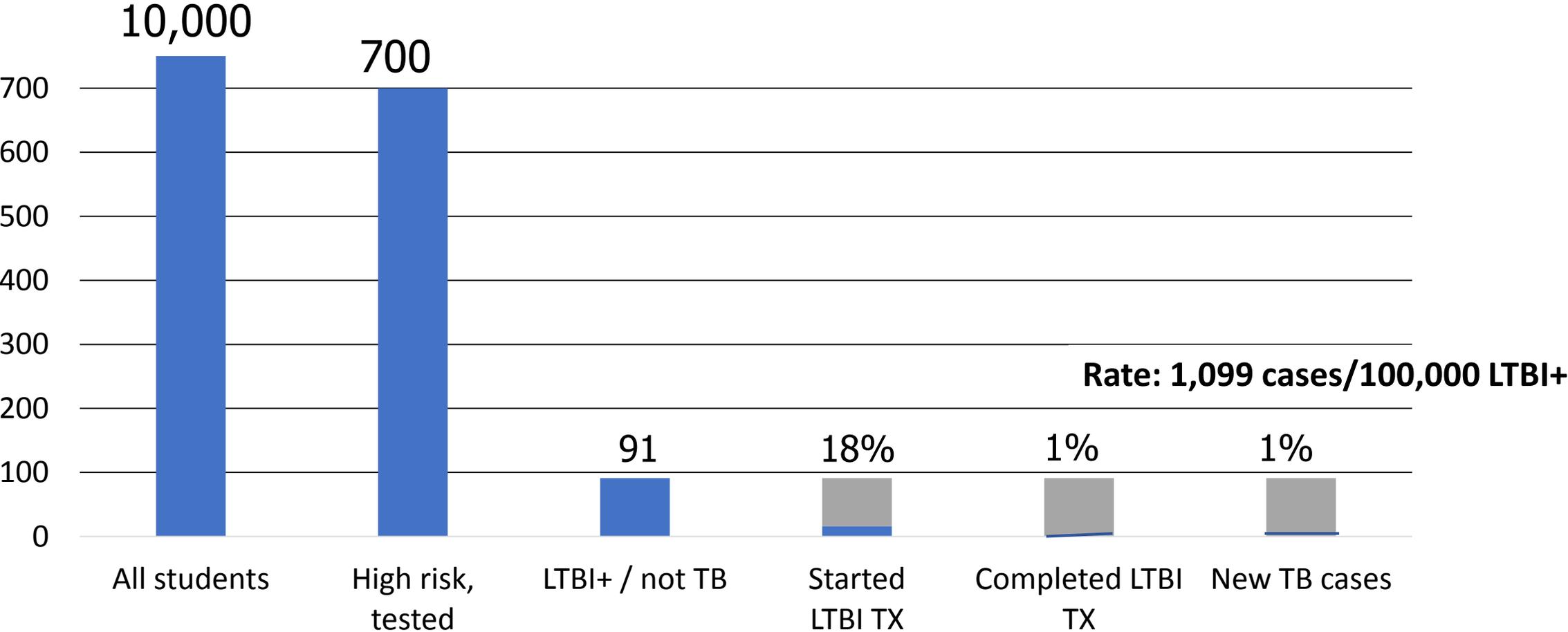


# LTBI Cascade, Targeted LTBI Services Provided by Chase Brexton Health Care, 2016



# LTBI Cascade, High-risk Screening in University XYZ, Pooled Data, 2015-2016

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# Things to consider for LTBI services in Community Clinics

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Cost-benefit study\*

- Screen **high risk** populations only
- **Monitor** throughout screening and treatment

Our findings in Maryland

- Country of birth commonly unavailable
- Need for increased monitoring and follow-up for anyone with a positive test through to treatment completion
- Treatment completion: Very difficult to determine tx outcomes from EMR data extraction

\*Campbell JR et al. PLOSone 2017; 12(10):e0186778



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